

In the Claims

Please amend the Claims as follows:

49. (six times amended) A power sharing system in a DC load environment comprising:

a primary source of AC;

an alternative primary source of DC;

a secondary source of DC;

a power controller capable of inputting voltage regulated power simultaneously from said primary sources, said alternative primary source of DC making a shared contribution of power selected by said power controller, and having a power junction means for delivering a constant voltage DC to at least one DC compatible load at an output of said power sharing system;

said power controller controlling supply side power sharing at a DC load side;

said power controller having a converter converting inputted electrical power into a defined DC-regulated voltage to provide and manage power to said DC compatible load;

said power controller producing inputting voltage regulated power affecting response of said alternative primary source of DC power;

said secondary source of DC being a battery to supply power in the event of a failure in a primary source of power, said power controller maintaining said battery in a fully charged condition; and,

Q-
said power controller biasing said power junction means for drawing power from said secondary source of DC power to limit peak power supplied from said primary source of AC power to said at least one DC compatible load in accordance with a pre-set threshold of power from said primary source of AC power in order to reduce peak power surcharges.

Sub K1
50. (three times amended) The power system of Claim 49 wherein said DC compatible load is a lighting system.

51. (three times amended) The power system of Claim 49 wherein said alternative primary source of DC is a storage medium.

52. (three times amended) The power system of Claim 49 wherein said alternative primary source of DC is photo voltaic.

53. (three times amended) The power system of Claim 49 wherein said alternative primary source of DC is a cogenerator.

54. (three times amended) The power system of Claim 49 wherein said alternative primary source of DC is a wind energy conversion system.

sub
K2
91

56. (three times amended) The power system as in Claim 49 in which said power controller has circuitry for combining power from said alternative primary source of DC and said battery in the absence of power from said primary source of AC.

Rule 36 117
92
sub
K3

116. (amended) A power control for use in a high efficiency lighting system for maintaining normal lighting conditions by lighting fixtures requiring DC electrical power comprising;

an AC connection for receiving AC electrical power from a grid source and an output connection for delivering required DC electrical power to said lighting fixtures;

a power controller capable of inputting voltage regulated power simultaneously from said primary sources, said alternative primary source of DC making a shared contribution of power selected by said power controller, and having a power junction means for delivering a constant voltage DC to at least one DC compatible load at an output of said power sharing system;

said power controller controlling supply side power sharing at a DC load side;

said power controller producing inputting voltage regulated power affecting response of said alternative primary source of DC power;

a converter converting said AC electrical power to DC electrical power;

92
a connection for a battery for providing on a standby basis said required DC voltage electrical power to said power control means;

said battery connection being connected to said converter for maintaining a connected battery in a fully charged condition when AC power is connected to the AC connection during normal supply of AC electrical power from said grid source; and

said power control delivering said required DC electrical power from said battery means to said lighting fixtures during an AC electrical power outage to maintain without interruption normal lighting by said lighting fixtures.
